

Title (en)  
Enhanced transport of ethernet traffic over a transport SDH/SONET network

Title (de)  
Verbesserter Transport des Ethernet-Verkehrs über ein SDH/SONET-Transportnetz

Title (fr)  
Transport renforcée du trafic Ethernet par un réseau du transport SDH/sonet (HNS)

Publication  
**EP 1339198 A1 20030827 (EN)**

Application  
**EP 02290445 A 20020222**

Priority  
EP 02290445 A 20020222

Abstract (en)  
Disclosed is a method and device for handling Ethernet frame signals in a SDH/SONET network, the SDH/SONET network comprising network elements or nodes and fiber connections connecting the network elements, the method being characterized by the step of defining a new layer/network over the SDH/SONET network in order to manage the Ethernet signals over the SDH/SONET network, the new layer/network using the resources of SDH/SONET network in such a way as to optimize the provided services and the performances with reference to this specific type of transport. The step of defining a new layer/network comprises the steps of: defining at least two Ethernet Access Points, namely Ethernet interfaces at the SDH/SONET network boundary where the Ethernet signals can access/leave the SDH/SONET network; defining a Link as a pair of Ethernet Access Points providing a point-to-point connection; for any pair of Ethernet Access Points, defining corresponding Circuits, namely all the possible routes connecting the pair of Access Points through the SDH/SONET network; and dividing each Circuit into Pipes, namely a sequence of smaller segments. <IMAGE>

IPC 1-7  
**H04L 29/06**; H04L 12/46; H04J 3/16

IPC 8 full level  
**H04J 3/06** (2006.01); **H04J 3/16** (2006.01); **H04L 1/18** (2006.01); **H04Q 11/04** (2006.01)

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Citation (search report)

- [Y] WO 0115363 A1 20010301 - MARCONI COMM INC [US]
- [Y] US 2001043603 A1 20011122 - YU SHAOHUA [CN]
- [A] US 6122281 A 20000919 - DONOVAN MARK J [US], et al
- [A] EP 0982900 A2 20000301 - NORTEL NETWORKS CORP [CA]
- [A] EP 0924901 A2 19990623 - NORTHERN TELECOM LTD [CA]
- [A] ARMSTRONG T ET AL: "GFP FOR ETHERNET", CONTRIBUTION TO T1 STANDARDS PROJECT, XX, XX, 10 July 2000 (2000-07-10), pages 1 - 6, XP000949000
- [A] "SERIES G: TRANSMISSION SYSTEMS AND MEDIA, DIGITAL SYSTEMS AND NETWORKS TYPES AND CHARACTERISTICS OF SDH NETWORK PROTECTION ARCHITECTURES", ITU-T RECOMMENDATION G.841, XX, XX, October 1998 (1998-10-01), pages COMPLETE, XP000955617

Cited by  
US7619967B2; EP1605618A1; WO2005036828A1

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